

What is claimed is:

1. A method for dynamically replicating one or more parent nodes on a network in response to a user request, comprising:
  - a. receiving a user request by a policy manager, said user request for replicating the parent node;
  - b. transmitting the user request to an event module by the policy manager for replicating the parent node;
  - c. transmitting the user request to a data consistency module, wherein the data consistency module maintains integrity of the data on the parent node;
  - d. initiating replication of software on the parent node to a new child node;
  - e. communicating with a resource management module to ensure proper utilization of network resources; and
  - f. transmitting a routing request to a request routing module for appropriately balancing network load, wherein the request routing module provides optimal routing based on the network resources.
2. The method of claim 1, wherein said request routing module communicates with a network monitoring module to initiate monitoring of the child node.
3. The method of claim 2, wherein said network monitoring module communicates network changes to the policy manager, such that in response the policy manager adjusts future replication requests in accordance with availability of the network resources.

4. The method of claim 3, wherein the resource management module communicates with a billing module, said billing module utilizing information communicated by said resource management module to bill customers for usage of the network.

5. The method of claim 4, wherein the policy manager is coupled to a customer configuration module, said customer configuration module enabling the customers to configure their usage criteria.

6. The method of claim 5, wherein said application replication module is coupled to the configuration management module, the configuration management module providing appropriate values to the configuration files of the software being replicated.

7. A method of initiating a replication event on a computer network, comprising:

- a. obtaining a user request message;
- b. determining the fixed resource requirements for all existing applications on the network;
- c. parsing the user request message;
- d. comparing the user request to current setting for the user;
- e. determining appropriate action in response to the user request; and
- f. acting upon user request message.

8. The method of claim 7, wherein the user request is for creation of a new application node.

9. The method of claim 8, further comprising:

- a. comparing the parsed user request to a resource usage list for determining availability of adequate resources;
- b. determining the fixed resource requirement;
- c. creating an installation bill of materials for the application node being added;
- d. generating a user account;
- e. copying files for the application in the installation bill of materials;
- f. obtaining local replacement for tokens used in the bill of materials; and
- g. reconfiguring files for local node.

10. The method of claim 9, wherein creating an installation bill of materials comprises:

- a. determining the appropriate directory for installation;
- b. obtaining the machine specifics;
- c. parsing the file type;
- d. noting and replacing machine specific entries with tokens; and
- e. appending custom entries to the existing bill of materials.

11. The method of claim 7, wherein the user request is for deletion of an existing application node.

12. The method of claim 11, further comprising:

- a. determining whether a process is running on the existing application node;
- b. forcing an update in the data consistency module of the data to be deleted from the existing application node;
- c. reporting unavailability of the existing application node being deleted;
- d. deleting application files from the application node; and
- e. reporting unavailability of data from the application node being deleted to all modules in the network.

13. The method of claim 7, wherein the user request is for turning on of an existing application node that is off.

14. The method of claim 7, wherein the user request is for turning off of an existing application node that is on.

15. The method of claim 7, wherein the user request is for changing the priority levels of an existing application.

16. A method for event routing in a network, the network comprising more than one node, comprising:

- a. receiving a node selection request;
- b. parsing the request to obtain necessary values from the request;

- c. identifying nodes capable of handling the event;
- d. determining node usage of the existing nodes in the network; and
- e. selecting the appropriate node for performing the event thereon.

17. The method of claim 16, wherein the nodes capable of handling the event are identified by comparing module type in the parsed message to a node lookup table, said node lookup table located on the network.

18. The method of claim 17, wherein the node usage of the existing nodes in the network is determined by ranking the identified nodes in accordance with usage statistics in a resource usage list.

19. The method of claim 18, wherein the appropriate node for performing the event thereon is selected based on a least-used node algorithm.

20. The method of claim 18, wherein the appropriate node for performing the event thereon is selected based on a least-used node for an anticipated time of use algorithm.

21. The method of claim 18, wherein the appropriate node for performing the event thereon is selected based on a node most capable of performing the event algorithm.

22. The method of claim 21, wherein the message is parsed to obtain values to a plurality of fields for making comparison to data stored in the node lookup list and the resource usage list.

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